

SHVETSOV, M. S.

Main Types of Limestones and Their Classification,"

report presented at the 5th Intl. Congress on Sedimentology, Geneva/Lausanne,
2-7 June 1958.

SHVETSOV, M.S.

Materials on the development on the study of sedimentary rocks in
the U.S.S.R. Ochn. po ist. geol. znan. no. 6:97-237 '58. (MIRA 11:8)
(Rocks, Sedimentary)

SHVETSOV, M.S.

~~Secondary~~ changes in limestones. Trudy MGRI 33:9-13 '58.

(MIRA 12:12)

(Limestone)

SHVETSOV, M.S.

First conference on teaching sedimentary petrography. Izv.vys.
ucheb.zav.; geol.i razv. 2 no.9:123-132 S '59.
(MIRA 13:4)

1. Moskovskiy geologorazvedochnyy institut imeni S.Ordzhonikidze.
(Petrology--Study and teaching)

PUSTOVALOV, L.V., otv.red.; GIMMEL'FARB, B.M., red.; KRASHENINNIKOV,
G.F., red.; SARKISYAN, S.G., red.; SERDYUCHENKO, D.P., red.;
TEODOROVICH, G.I., red.; ~~SHVETSOV, M.S.~~, red.; SMIRNOVA, Z.A.,
red.izd-va; IVANOVA, A.G., ~~tekhn.~~red.

[Problems of sedimentology; reports of Soviet geologists for
the Sixth International Congress of Sedimentology] Voprosy sedi-
mentologii; doklady sovetskikh geologov k VI Mezhdunarodnomu
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lit-ry po geol. i okhrane nedr, 1960. 215 p.

(MIRA 14:3)

1. International Congress of Sedimentology. 6th, Copenhagen,
1960.

(Rocks, Sedimentary)

SHVETSOV, M.S.

Systemizing structures of sedimentary rocks. Izv.vys.ucheb.zav.;
geol. i razv. 4 no.12:40-42 D '61. (MIRA 15:2)

1. Moskovskiy geologorazvedochnyy institut imeni S.Ordzhonikidze.
(Rocks, Sedimentary--Classification)

SHVETSOV, M.S.

Basic principles in the classification of sedimentary rocks.
Izv.vys.ucheb.zav.;geol. i razv. 4 no.8:3-10 Ag '61. (MIRA 14:9)

1. Moskovskiy geologorazvedochnyy institut imeni S. Ordzhonikidze.
(Rocks, Sedimentary--Classification)

VARSANOF'YEVA, V.A.; BOGDANOV, A.A.; KUZNETSOV, Ye.A.; LANGE, O.K.;
MERKLIN, R.L.; MURATOV, M.V.; PERMYAKOVA, A.I.; PETRUSHEVSKIY,
B.A.; SOKOLOV, D.S.; SHVETSOV, M.S.; YANSHIN, A.L.

Nikolai Sergeevich Shatskii. Biul. MOIP. Otd.geol. **36** no.4:
3-6 Jl-Ag '61. (MIRA 14:9)
(Shatskii, Nikolai Sergeevich, 1895-1960)

YABLOKOV, V.S., otv. red.; BEZRUKOV, F.L., red.; SHVETSOV, M.S.,
red.; SHEVCHENKO, G.N., tekhn. red.

[Deltaic and shallow-water marine sediments] Del'tovye i
melkovodno-morskie otlozheniia. Moskva, Izd-vo AN SSSR,
1963. 262 p. (MIRA 16:12)

1. Akademiya nauk SSSR. Komissiya po osadochnym porodam pri
otdelenii geologo-geograficheskikh nauk.
(Sediments (Geology))

SHVETISOV, M.S.

More about classification of sedimentary rocks. Izv. vys. ucheb.
zav. s. geol. i razv. 7 no. 7256-61 J1 '64 (MIRA 1883)

1. Moskovskiy geologorazvedochnyy institut im. Ordzhonikidze.

SHVETSOV, N. /

Wage reform in the Chinese Peoples's Republic. Sots.trud.no.9:44-
57 S '56. (MIRA 9:12)

(China--Wages)

ZOLOTAREV, V.I.; AVSENEV, Yu.M.; KAPRANOV, I.A.; KISVIANTSEV, L.A.; PEKSEV, Yu.A.; SHVETSOV, N.I.; TELEGIN, Ya.I.; POTAPOV, V.I.; KISVIANTSEV, L.A.; ZYKOV, A.A.; NETHUSOV, A.A.; SENIN, V.P.; MAKSIMOVA, A.P.; NIKOLAYENKO, Zh.I.; VOLKOV, N.V.; KALASHNIKOV, A.A.; PLAKSIN, S.V.; POPOV, M.N.; KARSHINOV, L.N.; YAKIMOVA, T.A.; BASHKANIKHIN, I.K.; KETKOVICH, A.Ya.; SHALASHOV, V.P.; VORONKOV, P.N.; VEKSHIN, G.K.; CHISTYAKOV, M.A.; IVANOV, N.I., red.; SLADKOVSKIY, M.I., red.; LEPNIKOVA, Ye., red.; MOSKVINA, R., tekhn.red.

[Development of the economy of the people's democracies; a survey for 1957] Razvitie ekonomiki stran narodnoi demokratii; obzor za 1957 g. Pod red. N.I. Ivanova i dr. Moskva, Izd-vo sotsial'no-ekon. lit-ry, 1958. 610 p. (MIRA 12:2)

1. Moscow. Nauchno-issledovat. kon'yunktturnyy institut.
(People's democracies) (Economic conditions)

SHVETSOV, N.I.

Textile industry in China. Biul.tekh.-ekon.inform. no.12:70-72
'58. (MIRA 11:12)

(China--Textile industry)

CHU BAO-I [Ch'u Pao-i]; AVSENEV, Yu.M. [translator]; SHVETSOV, N.I.
[translator]; FRUMKIN, A.B., red.; LEVITAN, I.B., red.;
GURKIN, V.G., tekhn.red.

[Criticism of the bourgeois theory of free trade] Kritika
burzhuaaznoi teorii svobodnoi trgovli. Pod red. A.B.Frumkina.
Moskva, Vneshtorgizdat, 1959. 82 p. Translated from the
Chinese. (MIRA 12:8)

(Free trade and protection)

ZOLOTAREV, V.I.; PEKSHEV, Yu.A.; LENSKIY, B.V.; AVSENEV, Yu.M.; KISVIANTSEV, L.A.; SHVETSOV, N.I.; TELEGIN, Ya.I.; ZYKOV, A.A.; SENIN, V.P.; NETHUSOV, A.A.; GAVRILOV, V.V.; NIKOLAYENKO, Zh.I.; VOLKOV, N.V.; KALASHNIKOV, A.A.; PLAKSIN, S.V.; POPOV, N.N.; KARSHINOV, L.N.; YAKIMOVA, T.A.; SHALASHOV, V.P.; KOSONOGOV, L.A.; PUSENKOV, N.N.; LEPNIKOVA, Ye., red.; MOSKVINA, R., tekhn.red.

[Economic development in the people's democracies; survey for 1958]
Razvitie ekonomiki stran narodnoi demokratii; obzor za 1958 g. Pod
red. M.I. Sladkovskogo i dr. Moskva, Izd-vo sotsial'no-ekon.lit-ry,
1959. 358 p. (MIRA 13:7)

1. Moscow. Nauchno-issledovatel'skiy kon'yunktturnyy institut.
(Communist countries--Economic conditions)

PEKSHEV, Yu.A.; LENSKIY, B.V.; AVSENOV, Yu.M.; MILONOV, V.S.; KISVYANTSEV, L.A.; TELEGIN, Ya.I.; POTAPOV, V.I.; NETRUSOV, A.A.; ZYKOV, A.A.; KUDIN, B.M.; MAKSI-MOVA, A.P.; NIKOLAYENKO, Zh.I.; VOLKOV, N.V.; SHVETSOV, N.I.; PLAKSIN, S.V.; POPOV, N.N.; KARSHINOV, L.N.; YAKIMOVA, T.A.; SHALASEOV, V.P.; VISYANIN, Yu.L.; KRASNOV, L.V.; PUSENKOV, N.N.; IVANOV, N.I., red.; ZOLOTAREV, V.I., red.; SLADKOVSKIY, M.I., red.; LEPNIKOVA, Ye., red.; KOROLEVA, A., mladshiy red.; NCGINA, N., tekhn. red.

[Economic development of the people's democracies; survey for 1959]
Razvitie ekonomiki stran narodnoi demokratii; obzor za 1959 god. Pod
red. N.I.Ivanova i dr. Moskva, Izd-vo sotsial'no-ekon. lit-ry, 1960.
(MIRA 14:6)
305 p.

1. Moscow. Nauchno-issledovatel'skiy kon'yukturnyy institut.
(Europe, Eastern--Economic conditions)

NIKIFOROV, L.A.; NIKOLAYENKO, Zh.I.; VOLKOV, N.V.; SHVETSOV, N.I.;
PLAKSIN, S.V.; POPOV, N.N.; PEKSHEV, Yu.A.; KARSHINOV, L.N.;
YAKIMOVA, T.A.; SHALASHOV, V.P.; VASYANIN, Yu.L.; KRASNOV, L.V.;
PUSENKOV, N.N.; VASIL'YEVA, G.N.; TSAGURIYA, G.M., tekhn. red.

[Economic development of the people's democracies of Europe and
Asia; statistical collection] Razvitie ekonomiki stran narodnoi
demokratii Evropy i Azii; statisticheskii sbornik. Moskva,
Vneshtorgizdat, 1961. 470 p. (MIRA 15:5)
(Communist countries--Statistics)

Apr 51

"Investigation on the Synthesis of a Number of Analogues of the Alkaloid Colchicine,
II," T. P. Fankova (deceased), T. M. Bokova, N. A. Preobrazhenskiy; and A. Ye.
Petrashenko, I. A. Il'shteyn, N. I. Shvetsov, Students, Moscow Inst of Fine Chem Tech

To ascertain structure of colchicine and possibly find compounds with similar structure with colchicine-like action, synthesized the following, contg proved or assumed structural elements of colchicine: 1, derive of A, B-diphenylethylamine, 2 derive of C, D-diphenylpropylamine, 2 derive of B, E-(diphenyl)-butylamine, 7 derive of C, F-iso-phenyl, G-diphenylpropylene.

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SHVETSOV, N. I.

SHVETSOV, N. I. -- "Synthesis of Simple and Complex Esters of 1-Alkyl-2, 5-dimethyl-4-phenyl-4-piperidols." Sub 31 Mar 52, Moscow Inst of Fine Chemical Technology imeni M. V. Lomonosov. (Dissertation for the Degree of Candidate in Chemical Sciences).

SO: Vechernaya Moskva January-December 1952

NAZAROV, I.N.; CHERKASOVA, Ye.M.; PROSTAKOV, N.S.; SHVETSOV, N.I.

Heterocyclic compounds. Part 33. Synthesis of 1-alkyl-2,5-dimethyl-4-piperidones. Zhur.ob.khim. 25 no.12:2245-2255 N '55.
(MLRA 9;4)

1.Moskovskiy institut tenkey khimicheskoy tekhnologii imeni
M.V.Lomonosova.

(Piperidone)

SHVETSOV, N. I.

Synthetic analgesics. VIII. 1-Alkyl-2:5-dimethyl-4-phenyl-4-piperidol. I. N. Nazarov, N. I. Shvetsov and O. I. Sorokin. IX. Its complex ester homologues of Frenadol and Isoprenadol. I. N. Nazarov and N. I. Shvetsov. Cyanohydrins of γ -piperidone, tetrahydro- γ -pyrone and tetrahydro- γ -thiopyrone; stereo-chemistry of cyanohydrin synthetase. I. N. Nazarov and N. V. Unkovskii (Zh. obshch. Khim., 1980, 20, 3157-3169; 3170-3181; 3181-3191).—VIII. The effect of phenyl-lithium on 1-alkyl-2:5-dimethyl-4-piperidone (I) is considered. In the majority of cases three stereoisomers—from the four theoretically possible—are separated from the phenylpiperidols (II) produced. Phenyl-lithium when reacted with 1-cyclohexyl- and 1-phenyl-2:5-dimethyl-4-piperidone forms only one stereoisomer. I reacts preferentially in enolic form with Grignard reagents but gives low yields of *tert*-piperidol.

IX. Propionic esters, propionates (III) and acetates of stereoisomers of II are prepared. Satisfactory esterification of II depends on structure of isomers and on character of substituents on the N of the piperidol nucleus. With Me groups in this position, II easily esterifies with acid halides in the cold, but with higher alkyl or allylic radicals, only by heating in presence of Mg metal. If the alkyl substituents at the N are branched, analgesic activity of III is nullified. Thus the hydrochloride of the propionate of the α -isomer of 1:2:5-trimethyl-4-phenyl-4-piperidol showed highest analgesic and lowest toxic activity.

The synthesis of piperidone cyanohydrins was achieved through reactions of conc. aq. solutions of the hydrochlorides with the calculated amounts of NaCN. γ -Piperidones reacted energetically with HCN. Similarly by reacting the hydrochlorides of I with NaCN a series of 1-alkyl-2:5-dimethyl-4-cyano-4-piperidols were obtained. From bicyclic aminoketones, cyanohydrin crystals (96-97% yields) were obtained, containing condensed piperidine nuclei. By adding to aq. solutions of 2:2-dimethyltetrahydropyran-4-one and -thiopyran-4-one 40% aq. NaHSO₃, the corresponding bisulphite compounds are formed which with conc. aq. NaCN are easily converted to the cyanohydrins in 70-83% yields. All cyanohydrins of I form as only one of the 4 theoretically possible stereoisomers; they were all of interest as intermediates for new anaesthetic materials similar to α -eucaine.

A. L. B.

Inst. Org. Chem., AS USSR

SHVETSOV, N.I.

NAZAROV, I.N.; PROSTAKOV, N.S.; SHVETSOV, N.I.

Heterocyclic compounds. Report No.39: Synthetic anesthetics. Part
4: Esters of 1,2,5-trimethyl-4-phenyl-4-piperidol with aliphatic
acids. Synthesis of promedol and isopromedol. Zhur. ob. khim. 26
no.10:2798-2811 0 '56. (MIRA 11:3)

1. Monkovskiy institut tonkoy khimicheskoy tekhnologii imeni M.V.
Lomonosova.

(Esters) (Piperidine)

NAZAROV, I.N.; SHVETSOV, N.I.

Heterocyclic compounds. Part 56: Effect of primary amines on
propenylisopropenylketone. Zhur.ob.khim. 27 no.5:1218-1222
My '57. (MLRA 10:8)

1. Institut organicheskoy khimii Akademii nauk SSSR.
(Amines) (Ketone)

SHVETSOV, N. I.

E. A. Mistryukov and N. I. Shvetsov, "Application of Concepts of Conformation for Determining the Conformation of Isomeric 1, 2, 3- and 1, 2, 5-Trimethyl-4-phenyl Piperidoles."

report presented at the Symposium on Concepts of Conformation in Organic Chemistry which took place in Moscow at the IOKh AN SSSR (Institute of Organic Chemistry, AS USSR) from September 30 to October 2, 1958.

Izvestiya Akademii nauk SSSR, Otdeleniye khimicheskikh nauk, 1959, No. 3, 561-564.

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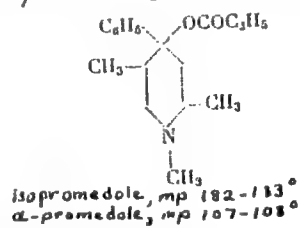
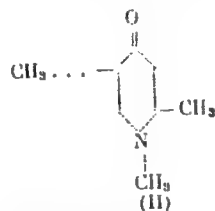
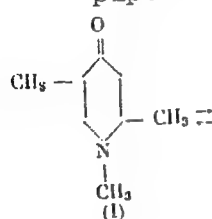
77074
SOV/62-59-12-18/43

AUTHORS: Nazarov, I. N., Shvetsov, N. I.

TITLE: New Methods of Synthesis of Isopromedole and α -Promedole

PERIODICAL: Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk, 1959, Nr 12, pp 2161-2164 (USSR)

ABSTRACT: 1,2,5-Trimethylpiperid-4-one, a mixture of cis- and trans-isomers (I and II), was used as starting material for the synthesis of promedole, which, with phenyllithium forms mostly 1,2,5-trimethyl-4-phenylpiperid-4-ol (mp 107-108°) corresponding to promedole.



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New Methods of Synthesis of Isopromedole and
 α -Promedole

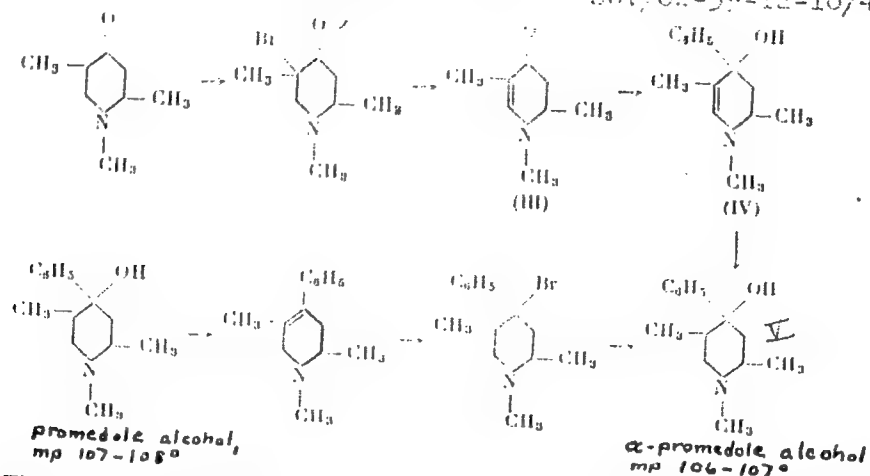
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SOV/62-59-12-18/43

After separation of (II) (trans) the residue contains mostly the cis-isomer, which with phenyllithium and propionyl chloride forms isopromedole, in almost 25% yield. For the synthesis of α -promedole two methods of preparation of corresponding isomer of 1,2,5-trimethyl-4-phenylpiperid-4-ol (V) were developed. The first method: (V) was obtained by catalytic hydrogenation of unsaturated alcohol (IV) in almost 30% yield. The second method is based on dehydration of alcohol (VI) followed by hydrobromination and hydrolysis.

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New Methods of Synthesis of Tripropylene and α -Promedole

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SOV, 0.1-59-12-18/43



The above synthesis made it possible to study their stereochemistry. The results will be given in a separate communication. There are 2 Soviet references.

Card 3/4

New Methods of Synthesis of Isopromedole and
Q-Promedole

77074

SOV/62-59-12-18/43

ASSOCIATION: Zelinskiy Institute of Organic Chemistry, Academy
of Sciences, USSR (Institut organicheskoy khimii
Imeni N. D. Zelinskogo Akademii nauk SSSR)

SUBMITTED: March 25, 1958

Card 4/4

5 (2,3)

AUTHORS:

Shvetsov, N. I., Kucherov, V. F.

SOV/20-126-5-29/69

TITLE:

The Stereochemistry of Heterocyclic Compounds (Stereokhimiya geterotsiklicheskikh soyedineniy). Configuration of the Geometric Isomers of 1,2,5-Trimethyl-4 Phenyl Piperidole-4 (Konfiguratsiya geometricheskikh izomerov 1,2,5-trimetil-4-fenilpiperidolov-4)

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 126, Nr 5, pp 1017 - 1020 (USSR)

ABSTRACT:

1,2,5 trimethyl piperidole-4 is a mixture of cis- and trans-isomers which is obtained by the condensation of propenyl-isopropenyl-ketone with methylamine (Ref 1). Of these isomers (I) and (II) the second - the trans isomer - is the more stable. A greater amount is also produced with alkaline isomerization, and it was isolated in the individual state. This has rendered possible the synthesis of all 4 geometrical isomers, as mentioned in the sub-title (III), (IV), (V) and (VI). Their propionates showed a pain-alleviating activity of various degrees (Ref 2). Their effect exceeds that of morphine by the 2-, 8-, 4- or 4-6-fold. In order to clarify the connection between the physiological activity and the spatial structure of this class of com-

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The Stereochemistry of Heterocyclic Compounds.
Configuration of the Geometric Isomers of 1,2,5-
Trimethyl-4 Phenyl Piperidols-4

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pounds the authors studied the stereochemistry of isomeric phenyl-alcohols. Thus it has become possible to prove the existence of the configuration mentioned with respect to the first group of substances (Ref 1). In the reaction of the trans-piperidole (II) with phenyl-lithium a mixture is formed (4:1) of isomeric phenyl-alcohols (III) and (IV). They can only be distinguished from each other by the configuration at C_4 . It was found that the isomer (IV) is more easily degraded and that it is more difficult to transform it into an ester than (III). Thus, (IV) must contain an axial hydroxyl group at C_4 . Investigation of the molecular model shows that the alcohol (IV) is thermodynamically more advantageous with an equatorial position of the phenyl group. As a matter of fact the alcohol (III), isomeric to same, can easily be transformed into (IV) at the reactions which proceed in C_4 at a Walden reversal. (Ref 1).

All this is a convincing proof that the promedol alcohol (III) - with a trans-position of the methyl groups - contains a cis-

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Trimethyl-4 Phenyl Piperidols-4

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-position of the phenyl group at C_4 and of the methyl group at C_3 . The α -promedol alcohol is its isomer with a trans-position of these groups. Much more difficult, however, is the proof of the configuration of the isomers (V) and (VI). But in this case too a success has been achieved, and in particular in connection with the investigation of the products of the catalytical hydration of the 1,2,5 trimethyl-4-phenyl Δ^5 dehydro-piperidol-4 (VIII), obtained at an earlier stage (Ref 1). This unsaturated compound is very easily dehydrated. The proof hereof is the presence therein of an axial hydroxyl group at C_4 . (VIII) was oxydized to (IX). (IX) shows characteristic absorption bands corresponding to the existence of a C=O bond of the tertiary amide, and further also of the existence of a non-conjugate keto group and of an associated hydroxyl. The formation of this latter substance is only possible with the oxidation of the double bond, which is located at C_5 of the piperidine cycle. With the catalytical hydration of the (VIII) a mixture

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of isomers is produced out of which - at a ratio of about 5:1 - the isomer (IV) and the new isomer, having a melting point of 102-103°, have been isolated, the latter isomer having proved to be identical with the isopromedol alcohol (V). This further proves, that the 3rd isomer (V) has a cis-position of the methyl groups, as well as a cis-position of the phenyl group at C₄, analogous to the (III), and finally a cis-position of the methyl group at C₅. It follows therefrom that the 4th isomer must have the only possible configuration with a cis-position of the methyl groups and a trans-position of the phenyl-group at C₄, as well as of methyl group at C₅. There are 4 Soviet references.

ASSOCIATION: Institut organicheskoy khimii im. N. D. Zelinskogo Akademii nauk SSSR (Institute of Organic Chemistry imeni N. D. Zelinskiy of the Academy of Sciences, USSR)

Card 4/5

NAZAROV, Ivan Nikolayevich [1906-1957]; TORGOV, I.V., doktor khim.nauk, otv.red.; ANDRZYEYEV, V.M., kand.khim.nauk, red.; GURVICH, I.A., kand.khim.nauk, red.; SHVETSOV, N.I., kand.khim.nauk, red.; YANOVSKAYA, L.A., kand.khim.nauk, red.; RUDENKO, V.A., red.izd-va; POLYAKOVA, T.V., tekhn.red.

[Selected works] Izbrannye trudy. Moskva, Izd-vo Akad.nauk SSSR, 1961. 690 p.
(Chemistry, Organic) (MIRA 14:4)

KUCHEROV, V.F.; SHVETSOV, N.I.

Stereochemistry of heterocyclic compounds. Report No.2: Geometrical isomers of 1-cyclohexyl- (and 1-phenyl)-2,5-dimethyl-4-phenyl-4-piperidinols. Izv. AN SSSR. Otd. khim. nauk no.2:287-291 F '61

(MIRA 14:2)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.
(Piperidinol)

MISTRYUKOV, E.A.; SHVETSOV, N.I.

Synthesis of four geometrical isomers of 1,2,3-trimethyl-4-phenyl-4-piperidinol. Izv. AN SSSR. Otd. khim. nauk no.2:292-294 F '61.

(MIRA 14:2)

1. Institut organicheskoy khimii im.N.D.Zelinskogo AN SSSR.
(Piperidinol)

SHVETSOV, N.I.; UNKOVSKIY, B.V.; MOKHIR, I.A.; KUCHEROV, V.F.

Stereochemistry of heterocyclic compounds. Report No.5: Possible configuration of 1, 2, 5-trimethyl-4-ethynyl-4-piperidinol stereoisomers and their transformation products. Izv.AN SSSR.Otd.khim.nauk no.5: 843-849 My '61. (MIRA 14:5)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR i
Institut tonkoy khimicheskoy tekhnologii im. M.V.Lomonosova.
(Piperidinol)

YAKUBOVICH, A.Ya.; SHVETSOV, N.I.; LEBEDEVA, I.V.; YAKUBOVICH, V.S.

New method of synthesis of polyphosphonitriles. Zhur.neorg.khim.
8 no.2:534 F '63. (MIRA 16:5)

1. Fiziko-khimicheskiy institut imeni L.Ya.Karpova.
(Phosphonitrile chloride)

YAKUBOVICH, A.Ya.; SHVETSOV, N.I.; LEBEDEVA, I.V.; YAKUBOVICH, V.S.

New method of synthesizing polyphosphonitriles. Zhur. neorg.
khim. 8 no.8:1831-1838 Ag '63. (MIRA 16:8)

(Phosphonitrile chloride)

SHVETSOV, N.I.; NURIDZHANYAN, K.A.; YAKUBOVICH, A.Ya.; SUKHOV, F.F.

Chemistry of phosphazenes. Derivatives of 2,4,6,6-tetra-N-di-methylaminocyclotriphosphonitrile. Zhur.ob.khim. 33 no.12:3936-3941 D '63. (MIRA 17:3)

1. Fiziko-khimicheskiy institut imeni Karpova.

• SHVETSOV, N.I.; LEBEJEVA, I.V.; FILATOVA, I.N.

Synthesis of some PO derivatives of phosphagenephosphoxide.
Zhur.neorg.khim. 10 no.4:993-994 Ap '65. (MIRA 18:6)

L 13622-66 EWT(m)/EWP(j)/T RPL WW/RM

ACC NR: AP6000987

(A) SOURCE CODE: UR/0286/65/000/022/0060/0060

AUTHORS: Yakubovich, V. S.; Lebedeva, I. V.; Yakubovich, A. Ya.; Shvetsov, N. I.

ORG: none

TITLE: A method for obtaining polyphosphonitryl chlorides. Glass 39, No. 176412¹⁵
[announced by Scientific Research Physicochemical Institute im. L. Ya. Karpov
(Nauchno-issledovatel'skiy fiziko-khimicheskiy institut)]

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 22, 1965, 60

TOPIC TAGS: phosphorus compound, polymer, polycondensation

ABSTRACT: This Author Certificate presents a method for obtaining polyphosphonitryl chlorides based on phosphonitryl chlorides. To produce a thermally stable and uniform polymer of a high molecular weight, monohydroxy derivatives of polychlorophosphazine-phosphohydroxy dichlorides or their derivatives, such as alkoxy derivatives, are used as phosphonitryl chlorides. These substances are subjected to polycondensation.

SUB CODE: 07/

SUBM DATE: 25Feb63

UDO: 678.745.3'73

Cord 1/1 HW

L 15326-66 EWT(m)/EWP(j)/T/ETC(m)-6 WM/RM

ACC NR: AP6000990

(A)

SOURCE CODE: UR/0286/65/000/022/0061/0061

AUTHORS: Yakubovich, V. S.; Lebedeva, I. V.; Yakubovich, A. Ya.; Shvetsov, N. I.

53
B
15

ORG: none

TITLE: A method for obtaining polyphosphonitrile chlorides. Class 39, No. 176416
/announced by Scientific Research Physico-Chemical Institute im. L. Ya. Karpov
(Nauchno-issledovatel'skiy fiziko-khimicheskiy institut)/

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 22, 1965, 61

TOPIC TAGS: polymer, polycondensation, organic phosphorus compound, phosphonitrile, monomer

ABSTRACT: This Author Certificate presents a method for obtaining polyphosphonitrile chlorides by polycondensation of phosphonitrile chloride monomers. To increase the variety of thermostable polymer, the monomers used are: chloromono- or poly(dichloro-phosphaen)-phosphooxide dichlorides or alkoxy derivatives of the latter.

SUB CODE: 11/ SUBM DATE: 25Feb63

07/

Card 1/1

UDC: 678.745.3.123

PIROTSKIY, P.P.; SHVETSOV, N.N.

Current leakage in electrolytic cells for the electrolysis of zinc
and ways to reduce it. TSvet. met. 33 no.8:35-39 Ag '60.

(MIRA 13:8)

1. Dnepropetrovskiy khimiko-tekhnologicheskii institut.
(Electric currents, Leakage)
(Zinc--Electrometallurgy)

PIROTSKIY, I.P.; SHVETS', "M".

Device for measuring direct current in electrolytic streams. Izv. tekhn.
no. 12:43-44, 1961 (MIRA 15:1)
(electric meters)

PIROTSKIY, P.P.; SHVETSOV, N.N.

Modeling current leakages in electrolytic cell systems. TSvet.
met. 34 no. 4:29-34 Ap '61. (MIRA 14:4)
(Electric currents, Leakage—Electromechanical analogies)
(Electrometallurgy)

SHVETSOV, N.N.

Electric current losses in electrolytic copper refining and
methods to calculate them. TSvet.met. 35 no.8:36-44 Ag '62.
(MIRA 15:8)
(Copper—Electrometallurgy) (Electric currents, Leakage)

SHVETSOV, N.N.; STENDER, V.V.

~~SECRET~~

Current leakage in the industrial electrolysis of aqueous solutions.
Zhur. prikl. khim. 36 no.8:1756-1763 Ag '63. (MIRA 16:11)

1. Dnepropetrovskiy khimiko-tekhnologicheskii institut.

1. The following information is being provided for your information and is not to be used for any other purpose.
2. The information is being provided for your information and is not to be used for any other purpose.

(All-1-13)

PIROTSKIY, Petr Petrovich, doktor tekhn.nauk, prof.; SHVETSOV, Nikolay Nikolayevich, kand.tekhn.nauk, dotsent

"Electrical engineering and electrical equipment" by N.I.Amatuni and others. Reviewed by P.P.Pirotskii and N.N.Shvetsov. Izv.vys. ucheb.zav.; elektromekhanika 8 no.6:721-722 '65.

(MIRA 18:8)

1. Zaveduyushchiy kafedroy elektrotekhniki Dnepropetrovskogo khimiko-tekhnologicheskogo instituta (for Pirotskiy).
2. Dnepropetrovskiy khimiko-tekhnologicheskii institut (for Shvetsov).

FEDOTIN, A.P.; GOLNOVA, M.M.; LUKATEL'Y, V.K.; USLAVTSKIY, B.F.

Liquid-vapor equilibrium in the system methyl alcohol -
methyl methacrylate. Izv. Fiz. khim. 38 no.5:1303-1304
My '64. (MLRA 18:12)

1. Yaroslavskiy tekhnologicheskii institut. Submitted
June 7, 1963.

SHVETSOV, P. D.

Remont, reviziia i eksploatatsiia parovykh dvigatelei. Kiev, Mashgiz, 1950.
199 p. illus.

Bibliography: p. 181.

Repair, inspection and utilization of steam engines.

DLG: TJ471.S5

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library
of Congress, 1953.

SHVETS, I.T., deystvitel'nyy chlen; SHVETSOV, P.D., professor [editors].

[Thermodynamic installations of small and medium capacity; a reference book. Teploenergeticheskie ustanovki maloi i srednei moshchnosti; spravocnoe rukovodstvo. Pod red. I.T.Shvetsa i P.D.Shvetsova. Kiev, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry [Ukr.otd-nie] 1952. 514 p. (MLRA 6:7)

1. Akademiya nauk Ukrainiskoy SSR (for Shvets).

(Thermodynamics)

SHVETSOV, P.D., prof.; YEREMENKO, A.S., kand.tekhn.nauk; KUTSIN, E.A.,
kand.tekhn.nauk

Problem of raising the resistance of turbine blades to erosion
blades. Trudy Inst.tepl.AN URSR no.7:21-25 '52. (MIRA 13:5)
(Cavitation) (Turbines--Blades)

SHVETSOV, P.D., prof.

Limits of the raising of the power of engines. Trudy Inst.
tepl.AN URSR no.7:26-34 '52. (MIRA 13:5)
(Steam engines)

SHVETSOV, P.D., professor

Simplified calculation of vibration in steam turbine blades. Trudy Inst.
tepl. AN URSS no.8:55-67 '52. (MLRA 8:7)
(Steam turbines--Blades--Vibration)

SHVETSOV, P.D., professor

Improving the thermodynamic efficiency of marine steam engines. Trudy
Inst. tepl. AN URSR no.8:68-77 '52. (MIRA 8:7)
(Marine engines)

SHVETSOV, P.D.. professor; BARANOVSKIY, M.A., kandidat tekhnicheskikh nauk,
dotsent, retsenzent, redaktor; HUDENSKIY, Ya., tekhnicheskiiy redaktor.

[Prevention of breakdowns in steam turbines] Preduprezhdenie avarii
parovykh turbin. Kiev, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry,
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(Steam turbines)

KULIKOVSKIY, Pavel Pavlovich, kand.tekhn.nauk; SHVETSOV, Petr Dmitriyevich, prof.; SEMENOV, Aleksandr Sergeyevich, dots.; MOZER, V.F., prof., retsenzent; SAYKOVSKIY, M.I., kand.tekhn.nauk, retsenzent; KIRAKOVSKIY, N.F., dots., red.; TSITKIN, S.I., kand.tekhn.nauk, red.; ROMANOVSKIY, I.A., inzh., red.; SERDYUK, V.K., inzh., red. izd-va; RUDENSKIY, Ya.V., tekhn.red.

[Steam engines; control, adjustment, and testing; a manual] Parovye dvigateli; kontrol', naladka, isputanie. Spravochnoe rukovodstvo. Kiev, Gos.nauchno-tekhn.izd-vo mashinostroit. lit-ry, 1955. 377 p. (MIRA 11:6)

(Steam engines--Handbooks, manuals, etc)

SHVETS, I.T.; SHVETSOV, P.D., professor; DYBAN, Ye.P., mladshiy nauchnyy sotrudnik.

Study of heat transfer around the base of moving blades in turbines.
Trudy Inst.tepl.URSR no.12:13-20 '55. (MIRA 9:7)

1.Deystvitel'nyy chlen AN USSR (for Shvets)
(Heat-Transmission) (Blades)

SHVETSOV, P.D.

FEDOROV, P.D.; STABNIKOV, V.N.; GLYBIN, I.P.; BELYAVSKIY, V.V.; BOYCHENKO,
N.G.; BUZYKIN, N.A.; GOLOVIN, P.V.; DEMCHUK, A.P.; ZHURA, K.D.;
KORCHINSKIY, A.I.; KURILENKO, O.D.; KLIMKO, N.G.; LITVAK, I.M.;
MAL'TSEV, P.M.; NIKOLAYCHUK, I.M.; NAUMOV, A.L.; POPOV, V.D.; RUD'KO,
F.A.; SKOBLO, D.I.; KHRISTENKO, M.M.; TSYGANKOV, P.S.; SHLIPCHENKO,
Z.S.; SHVETSOV, P.D.

Gleb Mikhailovich Znamenskii; obituary. Sakh. prom. 31 no.12:68
D '57. (MIRA 11:1)

(Znamenskii, Gleb Mikhailovich, 1901-1957)

PHASE I BOOK EXPLANATION

SEP 1958
SEP 1958-1

Aviatsiya nauch. KarsSR. Institut teploenergetiki

Teploenergetika (Heat Transfer and Hydrothermodynamics) views,
1958. 190 p. (Series: It's: Sbornik trudy, no. 1.) 2,000
copies printed.

Eds. of Publishing House: Ya.L. Kaplan and M.M. Laktionov. Odesk.
E.I. Yefimov; Editorial Board: I.I. Gerasimov (Moscow),
E.I. Yefimov, Academy of Sciences USSR; I.I. Gerasimov (Moscow),
Bash. Ed.). Candidate of Technical Sciences; V.I. Gerasimov (Moscow),
Secretary). Candidate of Technical Sciences; V.I. Gerasimov (Moscow),
Corresponding Member, Academy of Sciences USSR; V.I. Gerasimov (Moscow),
skiy, Doctor of Technical Sciences, Candidate of Technical Sciences,
Technical Sciences; P.I. Gerasimov, Professor; and M.M. Laktionov, Candidate of
Technical Sciences.
PREFACE: This collection of articles is intended for scientific
workers and technical personnel in the fields of heat transfer
and hydrodynamics.

CONTENTS: This collection of 18 articles deals with experimental
and theoretical studies of problems in heat transfer and hydro-
dynamics as they affect steam and gas turbines and heat exchangers.
The results of theoretical investigations of heat transfer in
gas turbine components and in steam turbines are presented.
The problems of heat transfer in gas turbines are discussed.
Several problems of the thermodynamics of steam
and gas turbines are discussed. References follow each article.

Latitskiy, S.A. Investigation of the Amount of Heat Given off When
Aqueous Solutions of Lithium Bromide and Lithium Chloride are Boiled
Under Vacuum
The paper deals with a study of the heat-transfer coefficient
for aqueous solutions of lithium bromide and lithium chloride under
boiling conditions. The effects of the concentration of the
solution, the ambient pressure, and other parameters are deter-
mined.

Baron, I.Ye. Approximate Method of Calculating Velocity and Tem-
perature Fields for the Case of Laminar Flow of a Compressible Fluid
With Heat-Transfer Around an Object

Pol'skiy, M.I. On the Possibility of Replacing the Differential
Equations of a Laminar Boundary Layer to Ordinary Differential
Equations

Shvets, I.T., and V.I. Pechuk. Aerodynamic Investigations of
the System of Interchangeable Exchange of Steam in a Turbine Steam
Turbines

The authors present the results of model tests to study in-
tercylinder exchange in steam turbines. The method is relatively
convenient with the hydraulic losses of the internal and external
connections for reducing the internal drag of the system and im-
proving it.

Chernov, I.L. Effect of Manufacturing Defects on End Losses in
the Quia Vases of Molded Turbine Disks

Gorbaly, Yu.P., A.Sh. Dorfman, and V.I. Gerasimov. Effect of
Reactivity and Pitch on the Magnitude of the Pitch Losses in
Cascades

Shaykovskiy, M.I., and A.Sh. Dorfman. Criteria for Estimating the
Efficiency of Intake Nozzles

Yermolenko, A.S., and A.P. Fedosenko. Losses in Turbine Blade
Vanes of the Cascade Type

Yermolenko, A.S., and A.P. Fedosenko. Investigation of the Losses in
Turbine Blade Cascades
The above two papers deal with an investigation of the losses in
in turbine blade cascades. The cascade type, the efficiency of
the cascade is determined as a function of the inlet angle,
blade-incidence angle, blade pitch, and other parameters.

Shvets, I.T., V.M. Silin, and L.I. Romanyuk (deceased). Aerodynamic
Investigation of the Heat Conductivity of Solids Used in Inverters
and Hotbeds

AVAILABLE: Library of Congress

Card 7/7

AC/PL/PL
7-25-60

SHVETSOV, P.D.; PECHUK, V.I.

Aerodynamic investigation of auxiliary details of the blading
section of high capacity steam turbines. Trudy KTIPP no.19:39-50
'58. (MIRA 12:12)

(Steam turbines)

KAMENETSKIY, Aleksey Vasil'yevich; SHVETSOV, P.D., prof., retsentsent;
SERDYUK, V.K., inzh., red.

[Operation and repair of reciprocating valve steam engines]
Eksploatatsiya i remont klapannykh parovykh mashin, rabo-
tainschikh na protivodavlenie. Kiev, Gos.nauchno-tekhn.isd-vo
mashinostroit.lit-ry, 1959. 108 p. (MIRA 12:7)
(Steam engines--Maintenance and repair)

MOROZOV, Sergey Georgiyevich; SHVETSOV, P.D., prof., retsenzont;
SOROKA, M.S., red.; GORNOSTAYPOL'SKAYA, M.S., tekhn. red.

[Heat calculations of a steam turbine with variable operating
conditions] Teplovye raschety parovoi turbiny pri peremennykh
rezhimakh. Moskva, Mashgiz, 1962. 297 p. (MIRA 15:9)
(Steam turbines)

SEVETSOV, P. F.

Perma frost and engineering-geological conditions of the Anadyr. region. Izd.
gorno-geol. upr. 1938

So: Trudy Arkticheskogo Nauchno-Issledovatel'skogo Instituta, GUSMP, Council of
Ministers, Vol. 201, 1948

SHVETSOV, P. F. AND SEDOV, V. .

Gigantic iceing and subterranean waters of the Tas-Khayakhtakh range. Izd. Sov. Poizuch. Proizvod. Sil, Iust Merzldoved. 1941

So: Trudy Arkticheskogo Nauchno-Issledovatel'skogo Instituta, GUSMP, Council of Ministers, Vol. 201, 1948

CHERNOBYL, I. I.

"Six-Frozen Layers and Atlantic Ice Layers of Lomonosov Sea," Dissertation
defended on 13 Feb 1966 at the USSR Geological Prospecting Inst.

Doc No. AS 1000 1/2, 1966

USSR/Permafrost
Hydrology

Jul/Aug 1967

"The Verkhoyansk-Kolymsk Mountainous Region as the
Typical Permafrost Hydrological Province," P. F.
Shvetsov, 12 pp

"Iz Vsesoyuz Geog Obshchestva" Vol LXXIX, No 4

This is one of the regions, where traces of huge
glaciers still remain. The author discusses the make-
up and location of the more important ice fields and
glaciers of the Verkhoyansk, Tas-Khayatakh, Chersk,
Taskestabyt, Mamsk, and Kolymsk Mountain Ranges. This
work was submitted at the Institute of Permafrost
named V. A. Obrucheva, Academy of Sciences of the
USSR.

LC

24276

SHVETSOV, P.F.; MEYSTER, L.A., otv.red.; KOTLYAREVSKAYA, P.S., red.izd-va;
ALEKSEYEVA, T.V., tekhn.red.

[Introductory chapters to the fundamentals of cryopedology] Vvodnye
glavy k osnovam geokriologii. Moskva, Izd-vo Akad.nauk SSSR, 1955.
110 p. (Materialy k osnovam uchenia o merzlykh zonakh zemnoi kory.
no.1). (MIRA 13:9)

(Frozen ground)

SHVERSOV, P.F.

USSR/ Geology - Terminology

Card 1/1 Pub. 45 - 8/18

Authors : Meyster, L. A., and Shvetsov, P. F.

Title : About some terms in the study of the zones of solidified soils and rocks and its place among other sciences

Periodical : Izv. AN SSSR. Ser. geog. 1, 69 - 73, Jan-Feb 1955

Abstract : Various geological terms are discussed as to derivation and present usage. Diagram.

Institution : Acad. of Sc., USSR, Institute of the Science of Soil Solidification

Submitted :

SHVETSOV, P.F.

Principles governing the division of the permafrost zone into
regions. Mat.k osn.uch.o merz.zon.zem.kory no.3:18-39 '56.
(MIRA 13:9)

(Frozen ground)

TOLSTOV, A.N.; SHVETSOV, P.F.

Data on the geological and geomorphological examination of the discovery site of the neolithic man in the Kolyma channel of the Indigirka River. Izv.AN SSSR.Ser.geog. no.3:85-89 My-Je '56.
(MLRA 9:11)

1. Institut merzlotovedeniya AN SSSR imeni V.A. Obrucheva.
(Indigirka Valley--Physical geography)
(Stone age)

SHVETSOV, P.F.; MEYSTER, L.A.

Water infiltration for thawing alluvial deposits as one of the
methods used in hydrothermal improvement of frozen ground. Izv.
AN SSSR. Ser. geog. no. 6:79-84 N-D '56. (MLRA 10:1)

1. Institut merzlotovedeniya imeni V.A. Obrucheva.
(Frozen ground)

SHVETSOV, P.F.

Origin and regularities of fossil ice occurrence. Vest. AN SSSR
26 no.3:66-69 Mr '56. (MLRA 9:6)

1. Chlen-korrespondent AN SSSR.
(Ice) (Frozen ground)

SKLETSON, P.F.

Popov, I.V.

X(4,5)

PHASE I BOOK EXPLOITATION

ROW/1695

Abadaniya bank 8888. Komitet po geodesii i geofizike.

Tesley doklady na II General'noy assambleye Mezhdunarodnogo geodesicheskogo i geofizicheskogo soyuz. Mezhdunarodnaya assotsiatsiya nauchnoy glaciologii (Abstracts of Reports Submitted to the 11th General Assembly of the International Union of Geodesy and Geophysics. The International Association of Scientific Hydrology) Moscow, 1957. 101 p. /Parallel texts in Russian and English or French/ 1,500 copies printed.

No additional contributors mentioned

PURPOSE: This booklet is intended for hydrologists and civil engineers.

COVERAGE: This collection of abstracts covers reports presented at the 11th General Assembly of the International Union of Geodesy and Geophysics on hydrological, erosional, and glaciological processes. Studies related to problems of underground waters, snow, and rivers are also discussed. The abstracts are in Russian, with English or French translations. Those appearing in English are designated by a single asterisk; those in French by two. There are no references given.

Card 1/3

Nilis-Bekharin, A.I. Types of Hydrochemical Maps in Hydrology	66
Chernov, M.V. Hydrological Maps and Their Importance in Evaluating the Water-Bearing Capacity and Reserves of Underground Water	71
Averyan, G.A. Glaciological Studies in the USSR	74
Salakhviliadze, G.K. Physical Properties of a Snow Cover	81
Shvetsov, F.P. Subject and Basic Problems in Glaciology in the USSR	85
Shumskiy, P.A. Basic Problems in Modern Glaciology in the Light of Present-Day Studies by Soviet Scientists	88
Armed, D.L. Problems in the Study of Erosion Processes on the Territory of the USSR	95

AVAILABLE: Library of Congress (G653.A37)

Card 2/3

RM/gap
3-21-79

SHVETSOV, P.F.

Results of research on soil improvement through the heating of
frozen rocks and cold soils and further research tasks. Izv. AN
SSSR, Ser. geog. no. 5:87-90 S-O '57. (MIRA 11:2)
(Frozen ground) (Soil heating)

SHVETSOV, P.F.

Scope and tasks of Soviet geocryology. Sov.geol. 1 no.12:36-42
D '58. (MIRA 12:4)

1. Institut merzlotovedeniya imeni V.A. Obrucheva AN SSSR.
(Frozen ground)

SHVETSOV, P. F.

AUTHOR:

p. 2

None Given

30-58-5-13/36

TITLE:

In the Department of Geological-Geographical Sciences
(V otdelenii geologo-geograficheskikh nauk)

PERIODICAL:

Vestnik Akademii Nauk SSSR, 1958,
pp. 56-59 (USSR)

Nr 5,

ABSTRACT:

The report of activity was made by D. I. Shcherbakov, Secretary of the Department and Member, Academy of Sciences, USSR. He mentioned that in the plan of the past year the sections devoted to the treatment of scientific problems were increased. In the report the ways of a further improvement of activity of the scientific institutions of the department were shown. Above all the participation of the institutes in the concrete treatment of individual questions of leading problems must be intensified. The works of the introduction of the scientific research of marked atoms into practice as well as of the distribution of different radioactive elements and their isotopes in nature must be intensified. In the field of experimental researches the highest

Card ~~1/1~~

1/2

In the Department of Geological-Geographical Sciences 30-58-5-13/36

attention must be devoted to problems of modelling natural processes. The thematic and the regional scientific prognoses play an especially important part. Their part in the development of the mineral raw material basis constantly increases. At present it is an indispensable means of the national economy plan. Then he reported in detail on the establishment of the Siberian Branch AS USSR and emphasized the necessity of aid on the part of the department. At the end he mentioned the connections of the department institutions to the councils of national economy for which an expeditionary activity of the department institutions shall be beneficial. The following persons participated in the discussion of the report:

- 1) P. F. Shvetsov, Corresponding member, Academy of Sciences, USSR reported on the work of the Institute for Frost Science and regretted the little interest on the part of the department office for this activity.
- 2) A. V. Sidorenko, President of the presidium of the Kola Branch imeni S. M. Kirov, Corresponding Member, Academy of Sciences, USSR reported on the cooperation

Card ~~27~~

1/2

FACT IV, I.F.

Significance of the composition, structure, permeability to water,
and moisture of soils and rocks in the formation of the mean annual
temperature of the earth's crust. Study NO.1:34-38
(MIL 14:11)

'56.

(Earth temperature)

RUSANOV, Boris Sergeyevich, kand. geologo-miner. nauk, laureat
Stalinskoy premii; SHVETSOV, P.F., nauchnyy red.; KEL', N.G.,
nauchnyy red.; VIL'SHANSKIY, A.L., red.; POLYAKOV, M.G.,
tekhn. red.

[Hydrothermal movements of the earth's surface] Gidrotermi-
cheskie dvizheniia zemnoi poverkhnosti. Moskva, Akad. nauk
SSSR Iakutskii filial Sibirskogo otd-niia, 1961. 225 p.
(MIRA 15:3)

1. Chleny-korrespondenty Akademii nauk SSSR (for Shvetsov, Kell').
(Earth movements) (Frozen ground)

SHVETSOV, P.F.

Glaciological problems in oil prospecting in subarctic lowlands.
Geol.i geofiz. no.8:36-39 '61. (MIRA 14:9)

1. Severnoye otdeleniye Instituta merzlotovedeniya imeni
V.A. Obrucheva, Vorkuta.
(Arctic regions--Petroleum geology)
(Frozen ground)

SHVETSOV, P.F.

Cryogenic geochemical fields in the perennial cryolite zone.
Izv. AN SSSR. Ser.geol. 26 no.1:46-51 Ja '61. (MIRA 15:5)

1. Severnoye otdeleniye Instituta merzlotovedeniya AN SSSR, g. Vorkuta.
(Cryolite) (Geochemical prospecting)

SHVETSOV, P.F.

Peculiarity of the conditions of coal accumulation on territory with
frozen subsoil. Izv.AN SSSR.Ser.geog. no.3:90-95 My-Je '62.
(MIRA 15:5)

1. Severnoye otdeleniye Instituta merzlotovedeniya AN SSSR.
(Vilyuy Lowland—Frozen ground) (Vilyuy Lowland—Coal geology)

ANTIPIN, V.I.; BUDANOV, N.D.; KOTLUKOV, V.A.; LEYBOSHITS, A.M.;
 PROKHOROV, S.P., kand.geol.-miner.nauk; SIRMAN, A.P.;
 FALOVSKIY, A.A.; SHTEYN, M.A.; BASKOV, Ye.A.; EGGATKOV,
 Ye.A.; GANEXEVA, M.M.; ZARUBINSKIY, Ya.I.; IL'INA, Ye.V.;
 KATSIYAYEV, S.K.; KOMPANIYETS, N.G.; NELYUBOV, L.P.;
 PONOMAREV, A.I.; REZNICHENKO, V.T.; AULEV, N.A.; TSELIGOROVA,
 A.I.; ALSTER, R.K.; SHVETSOV, P.F.; VYKHODTSEV, A.P.; KOTCHVA,
 A.I.; KASHKOVSKIY, G.N.; LOSEV, F.I.; ROMANOVSKAYA, L.I.;
 PROKHOROV, S.P.; MATVEYEV, A.K., dots., retsenzents; CHEL'TSOV,
 M.I., inzh., retsenzents; KUDASHOV, A.I., otv. red.; PETRYAKOVA,
 Ye.P., red. izd-va; IL'INSKAYA, G.M., tekhn. red.

[State of flooding and conditions for the exploitation of coal-
 bearing areas in the U.S.S.R.] Obvodnennost' i usloviia eksplu-
 atatsii mestorozhdenii ugol'nykh raionov. Pod nauchn. red.
 S.P.Prokhorova. Moskva, Gosgortekhnizdat, 1962. 243 p.

(MIRA 15:7)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut gidro-
 geologii i inzhenernoy geologii. 2. Kafedra geologii i geo-
 khimii goryuchikh iskopayemykh Moskovskogo Gosudarstvennogo
 universiteta (for Matveyev).

(Coal geology) (Mine water)

IVANOV, Nikolay Sergeyevich; SHVETSOV, P.F., otv. red.; BANKVITSER,
A.L., red. izd-va; RYLINA, Yu.V., tekhn. red.

[Heat exchange in the frozen zone of the lithosphere] Teplo-
obmen, v kriolitozone. Moskva, Izd-vo Akad. nauk SSSR, 1962.
198 p. (MIRA 16:1)

1. Chlen-korrespondent Akademii nauk SSSR (for Shvetsov).
(Frozen ground)

SHVETSOV, Petr Filimonovich; KUDASHEVA, I.G., red. izd-va;
MAKOGONCVA, I.A., tekhn. red.

[Frozen grounds, their distribution and significance]
Merzlye sloi zemnye; ikh rasprostranenie i znachenie. Basedy
na geokriologicheskie temy. Moskva, Izd-vo Akad. nauk SSSR,
1963. 100 p. (MIRA 16:7)

(Frozen ground)

SHVETSON, P.F.; ZAPOROZHITSEVA, I.V.

Frequency and engineering geocryological importance of the increase of the temperature of soils during a period from two to three years in subarctic regions. Probl. Sev. no.7:22-46 '63. (MIRA 17:2)

SAVETSOV, P.F.

Good beginning in the definition of terms in hydro- and engineering
geology. Sov.geol. 6 no.8:158-159 Ag '63. (MIRA 16:9)
(Engineering geology--Terminology)
(Water, Underground--Terminology)

ZHESTKOVA, T.N.; FEL'DMAN, G.M.; LUKHIN, I.Ye.; SHVETSOV, P.F.

Formation of glacial horizons in epigenetic frozen strata.
Dokl. AN SSSR 156 no. 3:558-560 '64. (MIRA 17:5)

1. Chlen-korrespondent AN SSSR (for Shvetsov).

6.4800

6.4310

6.9416

6.4311

20527

S/115/61/000/001/005/007
B128/B201

AUTHORS: Birger, L. A., Shvetsov, P. N., Sokov, I. A.

TITLE: Standard devices for the calibration of noise generators in the super-high frequency range

PERIODICAL: Izmeritel'naya tekhnika, no. 1, 1961, 37-40

TEXT: The authors describe a device for testing noise generators in the frequency range of from 1000-10,000 megacycles. A modulation method is employed for amplifying the weak signal. The block diagram of the device is shown in Fig. 1: 1) is the noise generator to be tested; 2) matching transformer; 3) standard noise generator; 4) device for keeping the temperatures constant; 5) tuned load (to room temperature); 7), 8), 9) waveguide connecting links; 10) signal generator; 11) waveguide branching; 12) matching transformer; 13) tuned load; 14) high-frequency modulator; 15) ferrite rectifier for eliminating parasitic noise; 16) high-frequency amplifier; 17) waveguide connecting link; 18) image frequency filter; 19) mixer; 20) heterodyne; 21) i.f. amplifier; 22) amplitude modulator; 23) amplifier for frequency-modulated signal; 24) phase modulator; 25) indicating instrument; 26) video

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Standard devices for ...

amplifier; 27) cathode-ray oscilloscope; 28) calibration line; 29) i.f. noise source (for compensating the i.f. noise); 30) electron modulator; 31) temperature pick-up for keeping the temperature of the standard generator constant; 32) stabilized (400 cycles) power supply unit. The noise source was tested by a comparison of the radiation temperature of the source with that of the standard generator. The measurements were made as follows: 1) tuning of the parts mentioned in 1, 2, and 5 according to amplitude and phase by means of matching transformers; 2) determination of the room temperature (T_z) by means of load (5); the room temperature usually differs from the normal temperature ($T_o = 293^\circ\text{K}$); 3) the standard noise generator with an effective radiation temperature is connected to the input; 4) compensation of i.f. noise by means of i.f. noise generator and connected calibration line; 5) determination of the attenuation factor

$$A = 10 \lg \frac{T_{RG} - T_z}{T_o - T_z} \quad [\text{db}] \quad , \text{ where } T_{RG} \text{ is the effective radiation temperature}$$

of the noise source to be tested. The final evaluation of the noise generator is made on the basis of equation

$$A_{RG} = A + A_e + 4.34 \left(\frac{T_z - T_o}{T_{RG} - T_o} \right) \quad [\text{db}]$$

Card 2/3

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Standard devices for ...

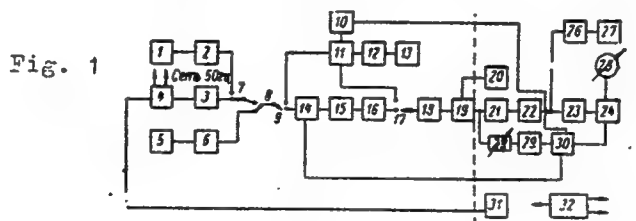
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B128/B201

In this equation, the last summand which is to be multiplied by the temperature-dependent parameter k , is to be neglected unless the noise source to be tested is a radiator with very low temperatures. Expression A_e is obtained from

$$A_e = 10 \lg \frac{T_e - T_z}{T_0} .$$

The error in measurement caused by the

standard noise generator (± 0.08 db) and the measuring method (± 0.14 db) can be reduced by repeated measurements. After the fifth measurement, it is smaller than ± 0.2 db. The authors also describe the design of the standard generator in waveguide (2600-10,000 megacycles) or coaxial construction (1000-2600 megacycles).



Card 3/3

L 29931-66 EWP(k)/ENT(d)/ENT(m)/EWP(h)/I/EWP(l)/EWP(v)/EWP(t)/ETI JD/HM
ACC NR: AP6018011 (A) SOURCE CODE: UR/0413/66/000/010/0126/0126

INVENTOR: Voronin, G. I.; Slotin, V. I.; Zaretskiy, B. S.; Krylov, A. I.;
Shvetsov, P. N.; Barannikov, G. I.; Eskin, G. I.

ORG: none

TITLE: Ultrasonic unit for fluxless brazing of metals. Class 49, No. 181967

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 10, 1966, 126

TOPIC TAGS: brazing, metal brazing, ultrasonic brazing, brazing unit

ABSTRACT: This Author Certificate introduces a unit for fluxless brazing of metals equipped with a heater and ultrasonic emitter. To increase efficiency, the ultrasonic

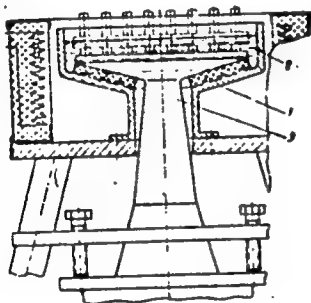


Fig. 1. Fluxless brazing unit

1 - Crucible; 2 - brazing alloy;
3 - ultrasonic emitter.

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UDC: 621.791.351.6.03

L 29931-66

ACC NR: AP6018011

emitter is located inside the crucible containing molten brazing alloy, forming the bottom of the latter (see Fig. 1.). Orig. art. has: 1, figure. [AZ]

SUB CODE: 11,13/SUBM DATE: 29Jan65/ ATD PRESS: 5011

Card 2/2 CC

SOBOLEVA, Z.V.; SHVETSOVA, M.A.; SHVETSOV, P.V.

Pollution with phenols of the soil, subsurface waters and bottom sediments in the region of the combine "Slantsa". Trudy ISGMI no.68:167-172 '61. (MIRA 15:11)

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(PLYUSSA RIVER—WATER—POLLUTION)(PHENOLS)(SOIL POLLUTION)
(NARVA RESERVOIR WATER—POLLUTION)

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[Using methods of linear programming for the distribu-
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grammirovaniia dlia razmeshcheniia predpriatii material'no-
tekhnicheskoi bazy stroitel'stva. Moskva: Stroiizdat,
1964. 101 p. (MIRA 17:12)

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(MCR: 18-12)

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Concerning A.B.Frenkel's article, "Automation in power engineering enterprises." Prom. energ. 17 no.8:50-51 Ag '62. (MIRA 16:4)

1. Glavnyy energetik Moskovskogo avtomobil'nogo zavoda imeni Likhacheva (for Titov).
 2. Rukovoditel' gruppy telemekhaniki Proyektnogo upravleniya Moskovskogo avtomobil'nogo zavoda imeni Likhacheva (for Shvetsov).
 3. Zamestitel' nachal'nika otdela glavnogo energetika Moskovskogo avtomobil'nogo zavoda imeni Likhacheva (for Shcherbakov).
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SHVETSOV, S.P.

~~SHVETSOV, S.P.~~
Peculiar seasonal neural infections. Zhur.nevr. i psikh. Supplement:
16 '57. (MIRA 11:1)

1. Iz kliniki nervnykh bolezney (zav. - prof. E.M.Vizen) Molotovskogo
meditsinskogo instituta.
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